FIG. 1

FIG. 2

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Yeast genetic data

ORF1	ORF2	ORF3	ORF4	ORF5	...	ORFp
Amino acid a,b,c	Amino acid a,b,d	Amino acid c,d,e	Amino acid f,g,h	Amino acid z,r,t,g,h	...	Amino acid e,f,g,b,x

Archaebacterium A genetic data

ORF1	ORF2	ORF3	ORF4	ORF5	...	ORFn1
Amino acid d,y,e	Amino acid w,x,b	Amino acid x,d,b	Amino acid w,x,d	Amino acid s,d,h	...	Amino acid x,f,y

Archaebacterium B genetic data

ORF1	ORF2	ORF3	ORF4	ORF5	...	ORFn2
Amino acid d,e,s	Amino acid z,d,s	Amino acid x,b,j	Amino acid b,y,i	Amino acid p,b,c	...	Amino acid t,y,x

Eubacterium C genetic data

ORF1	ORF2	ORF3	ORF4	ORF5	...	ORFn3
Amino acid t,b,g	Amino acid x,f	Amino acid q,c	Amino acid n,m	Amino acid x,l	...	Amino acid w,r

Eubacterium D genetic data

ORF1	ORF2	ORF3	ORF4	ORF5	...	ORFn4
Amino acid y,c	Amino acid w,e,r	Amino acid q,x,t	Amino acid p,b	Amino acid q,n,c	...	Amino acid o,v,u

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Yeast ORF database

Prokaryote ORF database

l1	K10E9.1
l2	K10E9.2
l3	F56C11.2
l4	F56C11.3
l5	F53G12.6
l6	F53G12.9
l7	F53G12.10

l1	ZK770.1
l2	C32E8.2
l3	C32E8.3
l4	C32E8.4
l5	C32E8.5
l6	C32E8.6
l7	F53F10.1
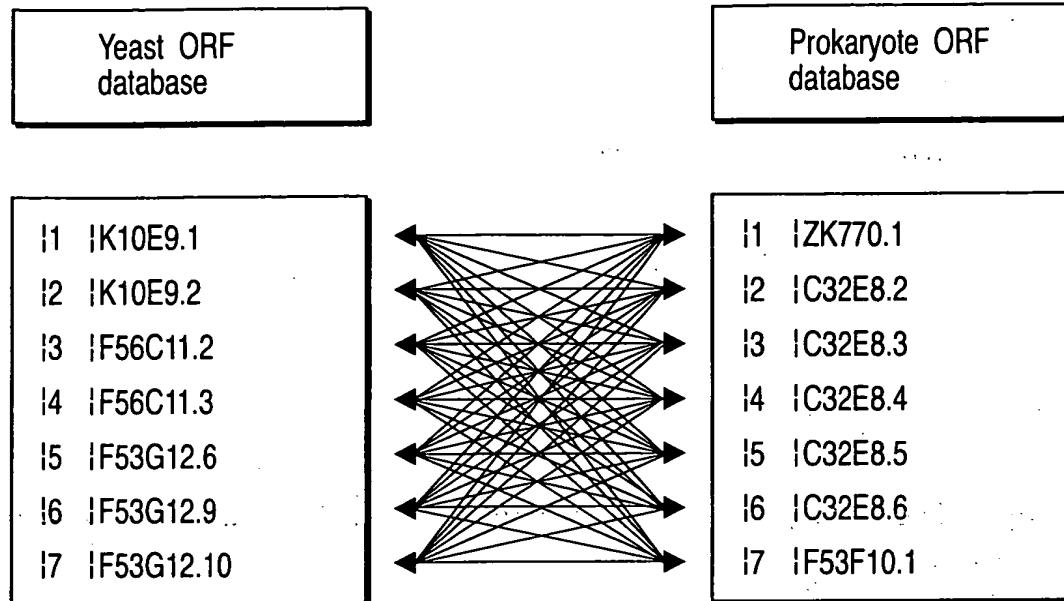
F I G. 4
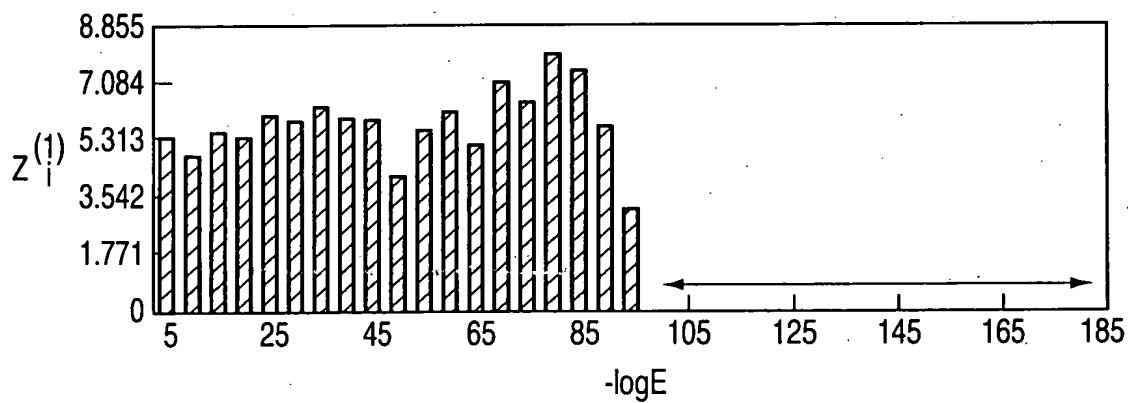
F I G. 7

$Z^{(2)}/t_{n-1}$ $\overline{Z^{(1)}}$	+	−
Equal to or more than 1	Archaebacterium	Eubacterium
Less than 1	Indeterminate	Indeterminate

F I G. 8

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Yeast genetic data

ORF1	ORF2	ORF3	ORF4	ORF5	...	ORFp
Amino acid a,b,c	Amino acid a,b,d,e	Amino acid c,d,e,f	Amino acid f,g,h,i,j	Amino acid z,r,t,g,h		Amino acid e,f,g,b,x
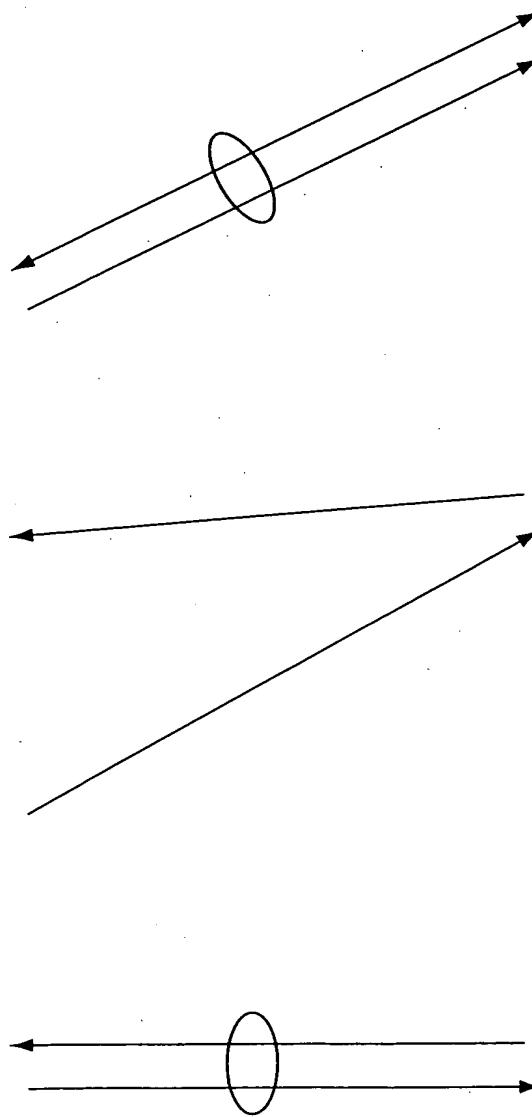
ORF1	ORF2	ORF3	ORF4	ORF5	...	ORFn1
Amino acid d,y,e,d	Amino acid w,x,b,d	Amino acid x,d,b,d	Amino acid w,x,d,g	Amino acid s,d,h		Amino acid x,f,y

Archaebacterium A₁ genetic data

F I G. 5

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FIG.9

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```
┌──────────────┐        ┌──────────────┐        ┌──────────────┐
│102           │        │101           │        │103           │
│ Job offerer  │        │   Server     │        │ Job seeker   │
│  terminal    │        │              │        │  terminal    │
└──────────────┘        └──────────────┘        └──────────────┘
```

Internet

104

FIG. 10

```
┌──────────┐      ┌─────────────────────────────────────┐
│112       │      │111                                  │
│          │      │  ┌───────────────────────────┐      │
│Interface │──────│  │  Homology analysis unit   │─ 111a│
│          │      │  └───────────────────────────┘      │
└──────────┘      │  ┌───────────────────────────┐      │
                  │  │       Testing unit        │─ 111b│
                  │  └───────────────────────────┘      │
                  │            Processor                │
                  └─────────────────────────────────────┘
```

To internet 104

113   Job offer data
       storage unit

Job seeking data
storage unit   114
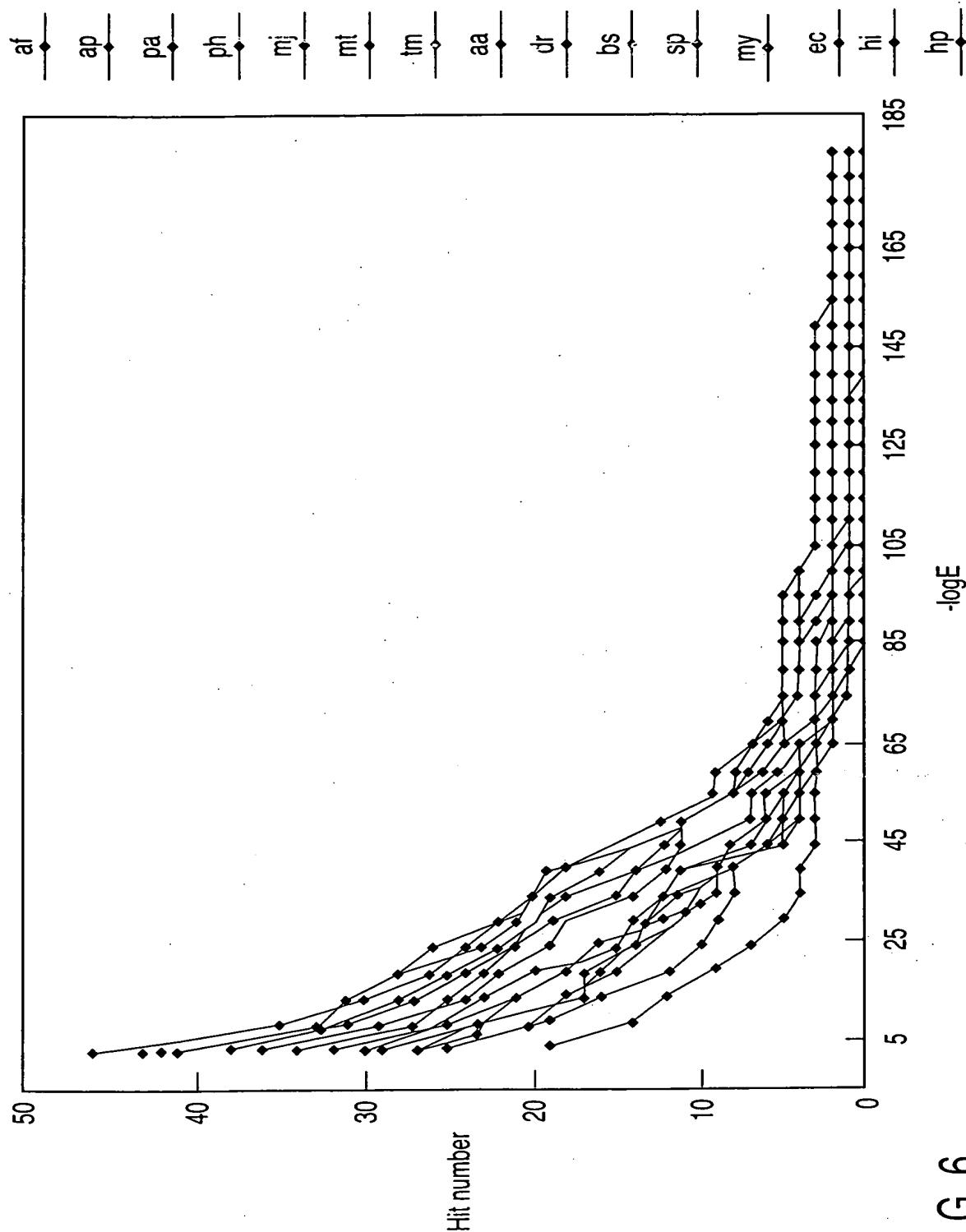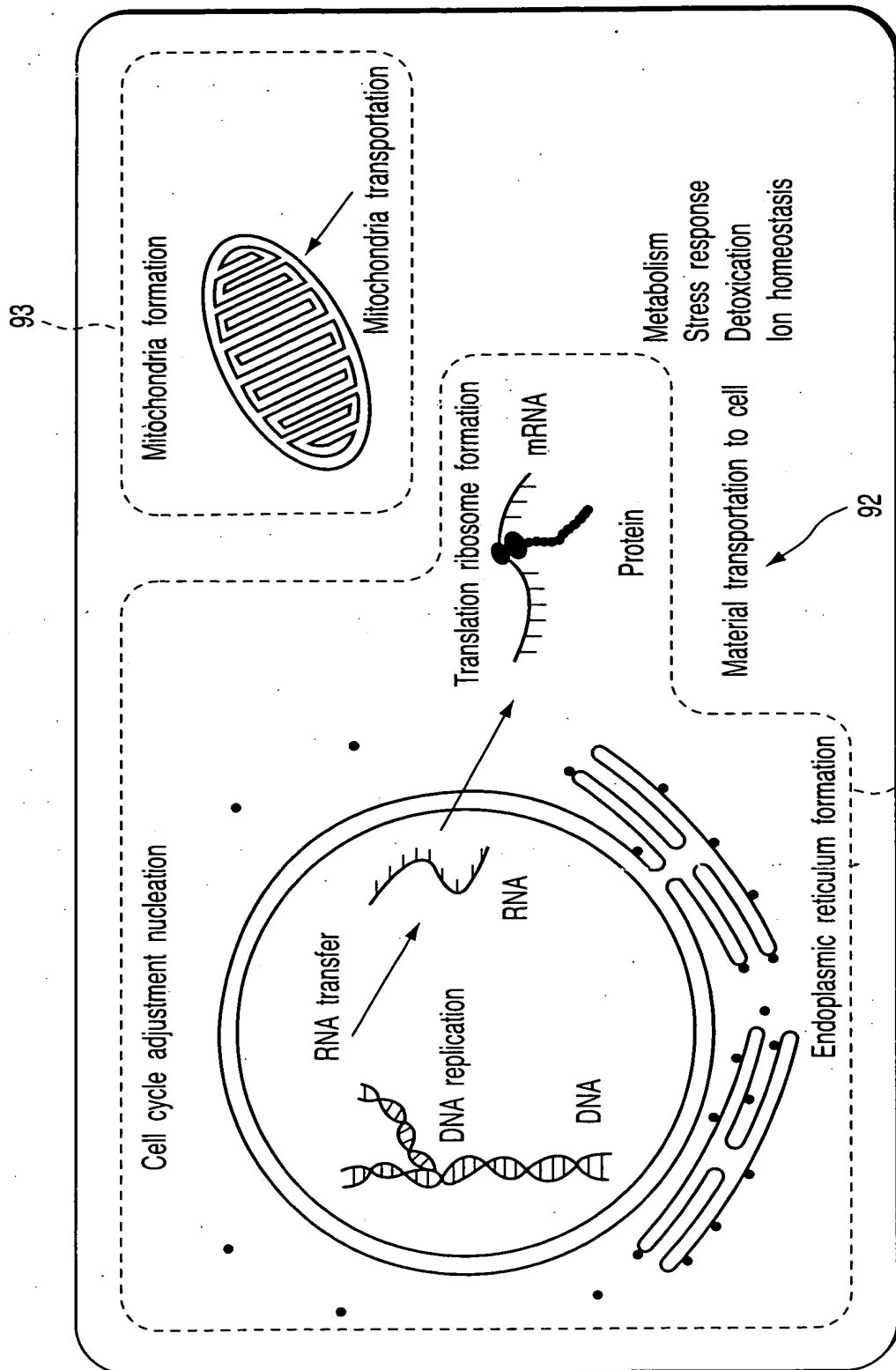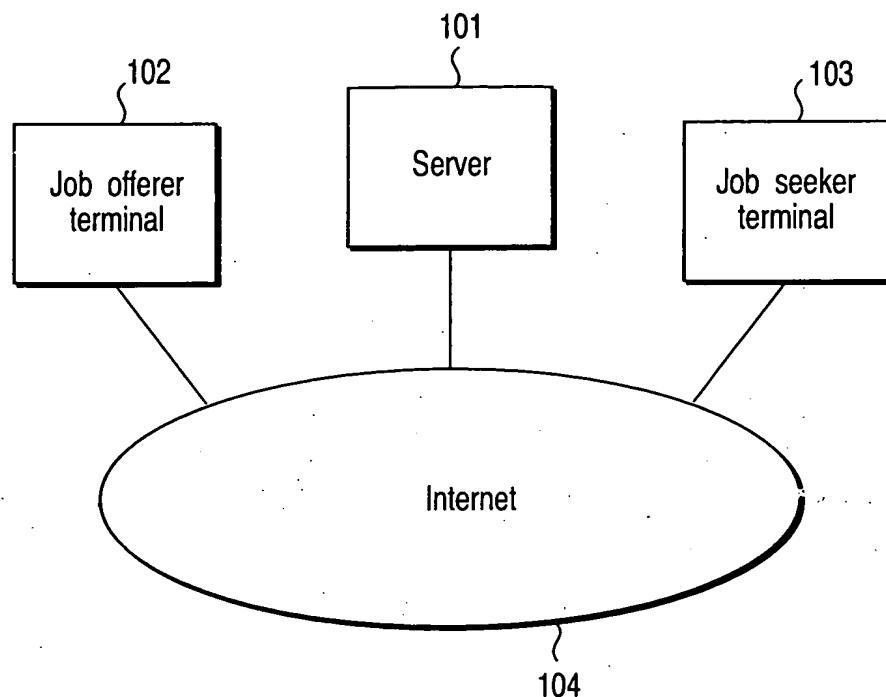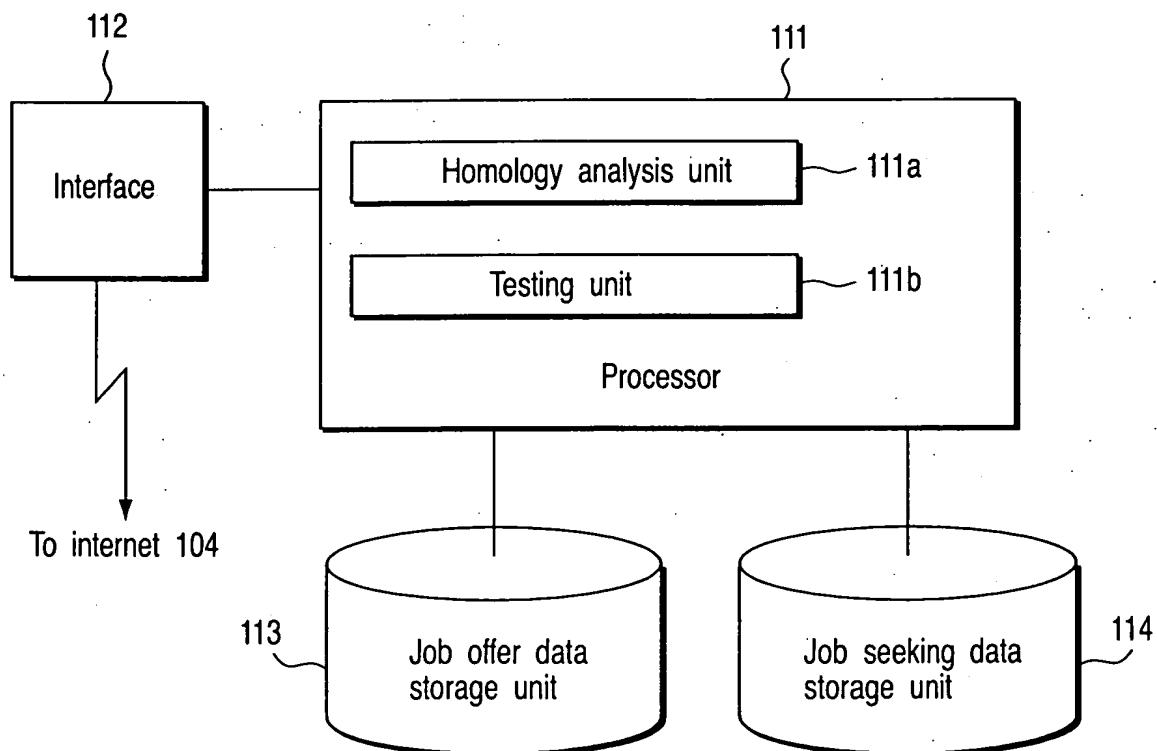
FIG. 11

To job offerer : please input conditions required for employment

Age
Sex
Occupational category
Business category
Area
Commuting time
Desired wage
Number of annual holidays
Desired experience / ability
Qualifying examination score
Working parrern /
length of service

Age~	Age
Male ○	Female ○
Kanto○Kinki○Shikoku○	
Time~	Time
Yen~	Yen
Day~	Day
Point~	Point

Please click right button
when you finish inputting | Transmit |

FIG. 12A

To job seeker : please input conditions required for employment

Age
Sex
Occupational category
Business category
Area
Commuting time
Desired wage
Number of annual holidays
Desired experience / ability
Qualifying examination score
Working parrern /
length of service

| Age~	Age
Male ○	Female ○
Kanto○Kinki○Shikoku○	
Time~	Time
Yen~	Yen
Day~	Day
Point~	Point

Please click right button
when you finish inputting | Transmit |

FIG. 12B

Job offer data

Age	Sex	Occupational category	Business category	Commuting time	. . .	Qualifying examination score
23~30	1 (Male)	3 (finance)	4 (accounting)	1 hr to 1 and 1/2 hr	. . .	600~
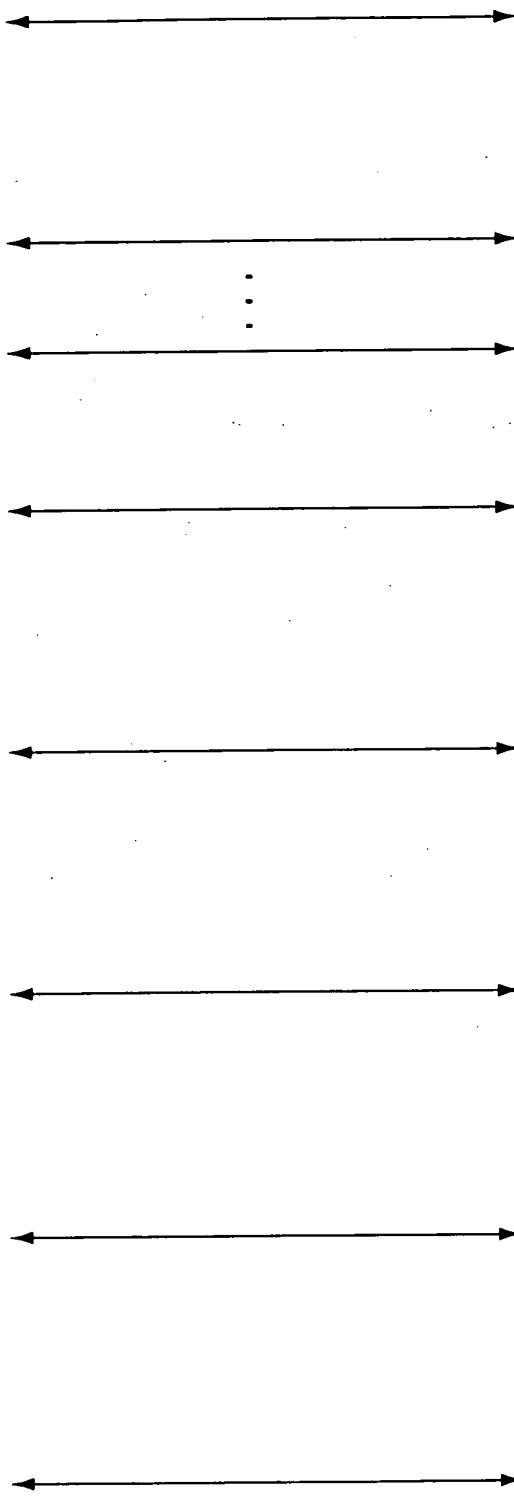
Job seeking data

Age	Sex	Occupational category	Business category	Commuting time	. . .	Qualifying examination score
31	1 (Male)	4 (insurance)	5 (monetry affairs)	30 min to 1 hr	. . .	750

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Record count	Comparative data	Determination result
Record 1	a,b	b
Record 2	a,c	c
Record 3	a,d	d
Record 4	b,c	b
Record 5	b,d	b
Record 6	c,d	d

F I G. 14A

Ordering result
b
d
c
a

F I G. 14B